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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/761,257	. 01/21/2004	Kevin Austin O'Dea	DP-309754	2573
2200.	7590 11/16/2007		EXAM	INER
DELPHI TECHNOLOGIES, INC. M/C 480-410-202		SCHWARTZ, CHRISTOPHER P		
PO BOX 5052			ART UNIT	PAPER NUMBER
TROY, MI 480	<i>10 7</i>		3683	
			MAIL DATE	DELIVERY MODE
			11/16/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)			
·		10/761,257	O'DEA ET AL.			
	Office Action Summary	Examiner	Art Unit			
		Christopher P. Schwartz	3683			
	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
WHIC - Exter after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DATE of SIX (6) MONTHS from the mailing date of this communication. It is period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin vill apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status						
1)⊠	Responsive to communication(s) filed on <u>06 Se</u>	eptember 2007.				
2a)⊠	This action is FINAL . 2b) This action is non-final.					
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Dispositi	on of Claims					
5)□ 6)⊠ 7)□	Claim(s) 1-9 is/are pending in the application. 4a) Of the above claim(s) is/are withdray Claim(s) is/are allowed. Claim(s) 1-9 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/o					
Applicat	ion Papers					
9)	The specification is objected to by the Examine	er.				
10)	The drawing(s) filed on is/are: a) acc	epted or b) objected to by the	Examiner.			
	Applicant may not request that any objection to the	drawing(s) be held in abeyance. Se	e 37 CFR 1.85(a).			
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority (under 35 U.S.C. § 119	•				
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
			// // // // // // // // // // // // //			
2) Notice 3) Infor	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08) cer No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	ate			

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DETAILED ACTION

1. Applicant's response filed September 6, 2007 has been received and considered. Claims 1-9 are pending.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).
- 4. Claims 1-9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Pueschel et al. '126 in view of Katinas and Busch et al. '033.

Regarding claim 1 Pueschel shows a brake system similar to applicant's, as is readily apparent from the drawings. The bypass valve may still be considered to be USV1 or USV2.

Pueschel et al. lacks specifically mentioning when the pump is shut off.

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Noises due to the operation of the pump and the shuttling of the valves between open and closed positions is an old and well known problem in the art. It is therefore desirable to limit unnecessary or excessive operations of these components to reduce noise. Such may be the case when the pump is functioning during ABS or during traction or stability control routines, when the brake pressures in the wheel cylinders are repeatedly increased, maintained, or reduced for specific periods of time.

The reference to Katinas discloses in column 3 lines 1-15 that noise-- due to the ABS pump motor operating against a pressurized master cylinder when the apply valve pulse routine is run – may be reduced by controlling operation of the pump so that it is shut off **prior to** the valve pulsing routine.

The reference to Busch et al. In col. 2 lines 24-32 also discloses that noise control may be effected by "adjusting the driving of the pump to the position of the shut off (valve) device". Busch also recognizes the fact that noise is created due to the great pulsations that result when the pressurized medium is delivered against closed valves or valves which are open in a manner not compatible with the delivery rate of the pump.

The examiner maintains the position that one having ordinary skill at the time of the invention would have found it obvious to have applied the teachings of Katinas and Busch to the device of Pueschel et al. '126 to reduce the noise associated with pump operation when the device operates in one of the aforementioned stability control braking modes.

Due to the striking similarity between applicants system and that of Pueschel et al. and Itoh et al limitations of claims 2-5 are considered to be an obvious variation to

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Pueschel et al. as modified, since the valving arrangements of Pueschel et al. and Itoh et al. are obviously interchangeable.

Response to Arguments

- 5. Applicant's arguments filed September 6, 2007 have been fully considered but they are not persuasive. The only reference that was changed out of the prior rejection was the reference to Katinas et al. As stated above in column 3 lines 1-15 Katinas states that noise-- due to the ABS pump motor operating against a pressurized master cylinder when the apply valve pulse routine is run may be reduced by controlling operation of the pump so that it is shut off **prior to** the valve pulsing routine. The examiner maintains that this teaching, combined with the reference to Pueschel et al. meets the claimed limitations, given the strong similarity between applicant's invention and that of Pueschel.
- 6. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

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7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Christopher P. Schwartz whose telephone number is 571-272-7123. The examiner can normally be reached on M-F 10:30-7:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jim McClellan can be reached on 571-272-6786. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

cps

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